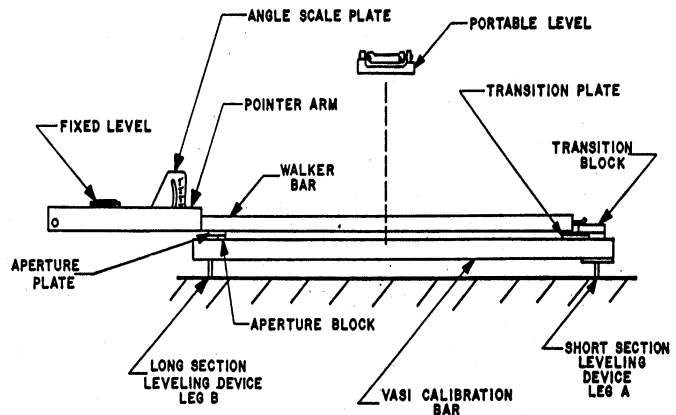


VASI/PAPI Maintenance

Is your airport conducting proper routine maintenance on airport owned visual glide slope indicators, such as VASIs or PAPIs? 14 CFR Part 139.311(c) states the certificate holder must properly maintain lighting systems on the airport, which are owned by the airport. This includes ensuring that each item of lighting is clean, functional, and provides an accurate reference to users.

If your airport owns any VASI and/or PAPI systems, it is your responsibility to keep this equipment functioning within manufacturer specifications. VASIs and PAPIs require specific routine and preventative maintenance that cannot be overlooked in order to maintain the integrity and accuracy of the visual signal. If FAA Airway Facilities (AF) owns VASI/PAPI systems at your airport, AF specialists will complete the required maintenance. Although FAA cannot directly perform maintenance on your VASI/PAPI system, AF specialists can be a good source of information on proper maintenance.

A walker calibration bar (pictured below, right) or similar device, along with a portable level, should be utilized for the purpose of aiming (VASI only). A written record of all maintenance performed during the year, including calibration checks, should be maintained for review during your annual FAA airport inspection. The attached sample checklist has been developed for your use, in order to document maintenance performed on your airport specific systems.



VASI / PAPI QUARTERLY INSPECTION CHECKLIST		RUNWAY XX VASI		RUNWAY XX PAPI			
DATE:	W/A#:	DOWNWIND	UPWIND	DOWNWIND INBD	DOWNWIND OUTBD	UPWIND INBD	UPWIND OUTBD
INSPECTOR NAME:	SIGNATURE:						
CODES							
/ -	CONDITION IS ACCEPTABLE						
D/C -	DISCREPANCY FOUND CORRECTIVE ACTION TAKEN						
D/P -	DISCREPANCY FOUND PARTS ON ORDER						
NOTE:	QUARTZ IODINE LAMP LIFE EXPECTANCY IS 2000 HRS OR 83 DAYS OPERATING 24 HOURS A DAY						
WALKER BAR CHECKED FOR CALIBRATION? (VASI ONLY)							
(1) CABINET							
	A. HINGE CONDITION & SECURITY						
	B. DAMAGE (GENERAL)						
	C. SECURITY OF MOUNTING						
	D. PAINT						
	E. INTERIOR AND EXTERIOR CLEANLINESS						
	F. WATER TIGHT SEAL						
	G. AIMING ANGLE CLEAR OF OBSTRUCTIONS						
	H. HORIZONTAL ALIGNMENT PARALLEL TO RUNWAY CENTERLINE						
	I. DISPLACEMENT CAUSED BY MOWING MACHINES, SNOW PLOWS, ETC.						
(2) VASI AIMING TOLERANCE (Not Applicable to PAPI Maintenance)							
	A. UPWIND (applicable degrees as set during installation)						
	B. DOWNWIND (applicable degrees as set during installation)						
	C. ADJUST TILT SWITCH AFTER CALIBRATING EACH UNIT						
CORRECTIVE ACTION SHEET							
ITEM	DISCREPANCY	CORRECTIVE ACTION	INITIALS	DATE			

VASI / PAPI QUARTERLY INSPECTION CHECKLIST		RUNWAY XX VASI		RUNWAY XX - PAPI			
(3) LAMPS							
A. BLACKENED, DISTORTED OR SIGNS OF AGE							
B. WIRE CONNECTIONS FOR EXCESSIVE HEAT, CORROSION, LOOSE SCREWS							
C. EQUAL AND CORRECT VOLTAGE TO EACH LAMP ON HIGH BRIGHTNESS							
D. DATE OF LAST INDIVIDUAL LAMP CHANGE RECORDED ON LAMP							
NOTE: DURING THIS PM, CALCULATE ALL LAMP LIFE EXPECTANCY. IF 2000 HOURS OR 83 DAYS HAVE BEEN EXCEEDED, GROUP RELAMP & INSTALL NEW FUSES.							
(4) LENS							
A. CLEANLINESS BOTH SIDES							
B. CRACKS OF DISTORTION							
C. ALIGNMENT							
D. SECURITY OF MOUNTING							
E. RED PORTION NOT FADED							
(5) TILT SWITCH							
A. OPERATION							
B. WIRE CONNECTIONS FOR EXCESSIVE HEAT, CORROSION, LOOSE SCREWS							
C. SECURITY OF MOUNTING							
(6) GRASS HOPPER FUSES							
A. PROPER RATING OF 1/4 AMP							
B. WIRE CONNECTIONS FOR EXCESSIVE HEAT OR CORROSION							
C. SECURITY AND TIGHTNESS OF FUSEHOLDER							
CORRECTIVE ACTION SHEET							
ITEM	DISCREPANCY	CORRECTIVE ACTION		INITIALS	DATE		

VASI / PAPI QUARTERLY INSPECTION CHECKLIST		RUNWAY XX VASI		RUNWAY XX - PAPI			
(7) SWITCHES AND RELAYS							
A.	LOOSE, BURNED OR MISALIGNED CONTACTS						
B.	WIRE CONNECTIONS FOR EXCESSIVE HEAT OR CORROSION						
(8) PORCELAIN BUSHINGS							
A.	CHIPPED, CRACKED OR BROKEN PARTS						
(9) WIRING (GENERAL)							
A.	BURNED OR OVERHEATED						
B.	CHEWED BY RODENTS						
C.	AGE (DETERIORATION)						
(10) RODENT CONTROL							
A.	SPIILLED D-CON						
B.	FRESH D-CON						
(11) PHOTO ELECTRIC DEVICE							
A.	OPERATION FOR HIGH AND LOW INTENSITY						
(12) FIELD ELECTRICAL CONTROL BOX							
A.	OPERATION (GENERAL)						
B.	WIRING FOR EXCESSIVE HEAT, CORROSION AND LOOSE SCREWS						
C.	WATER TIGHT SEAL						
CORRECTIVE ACTION SHEET							
ITEM	DISCREPANCY	CORRECTIVE ACTION		INITIALS	DATE		